

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/586704B
Source: IFW16
Date Processed by STIC: 5/6/5

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 05/11/2005

PATENT APPLICATION: US/09/586,704B

TIME: 16:13:23

Input Set : A:\600-1-081CON REV SEQ LIST 4-29-05.TXT

Output Set: N:\CRF4\05112005\I586704B.raw

4 <110> APPLICANT: STEINMAN, RALPH A
 5 NUSSENZWEIG, MICHEL C
 6 SWIGGARD, WILLIAM J
 7 JIANG, WANPING
 10 <120> TITLE OF INVENTION: IDENTIFICATION OF DEC, A RECEPTOR WITH
 11 C-TYPE LECTIN DOMAINS, NUCLEIC ACIDS ENCODING DEC, AND USES
 12 THEREOF
 16 <130> FILE REFERENCE: 600-1-081CON
 18 <140> CURRENT APPLICATION NUMBER: 09/586,704B
 19 <141> CURRENT FILING DATE: 2000-06-05
 21 <150> PRIOR APPLICATION NUMBER: 08/381,528
 22 <151> PRIOR FILING DATE: 1995-01-31
 24 <160> NUMBER OF SEQ ID NOS: 13
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 30
 30 <212> TYPE: PRT
 31 <213> ORGANISM: homo sapiens
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: C terminal DEC-205
 36 <400> SEQUENCE: 1
 37 Arg His Arg Leu His Leu Ala Gly Phe Ser Ser Val Arg Tyr Ala Gln
 38 1 5 10 15
 39 Gly Val Asn Glu Asp Glu Ile Met Leu Pro Ser Phe His Asp
 40 20 25 30
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 25
 45 <212> TYPE: PRT
 46 <213> ORGANISM: homo sapiens
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: N terminal DEC-205
 51 <400> SEQUENCE: 2
 52 Ser Glu Ser Ser Gly Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr
 53 1 5 10 15
 54 Gly Lys Cys Ile Gln Pro Leu Phe Asp
 55 20 25
 58 <210> SEQ ID NO: 3
 59 <211> LENGTH: 1723
 60 <212> TYPE: PRT
 61 <213> ORGANISM: mus musculus
 63 <220> FEATURE:
 64 <223> OTHER INFORMATION: predicted DEC-205
 66 <400> SEQUENCE: 3

p. 4

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```

67 Met Arg Thr Gly Arg Val Thr Pro Gly Leu Ala Ala Gly Leu Leu Leu
68 1 5 10 15
69 Leu Leu Leu Arg Ser Phe Gly Leu Val Glu Pro Ser Glu Ser Ser Gly
70 20 25 30
71 Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr Gly Lys Cys Ile Gln
72 35 40 45
73 Pro Leu Ser Asp Trp Val Val Ala Gln Asp Cys Ser Gly Thr Asn Asn
74 50 55 60
75 Met Leu Trp Lys Trp Val Ser Gln His Arg Leu Phe His Leu Glu Ser
76 65 70 75 80
77 Gln Lys Cys Leu Gly Leu Asp Ile Thr Lys Ala Thr Asp Asn Leu Arg
78 85 90 95
79 Met Phe Ser Cys Asp Ser Thr Val Met Leu Trp Trp Lys Cys Glu His
80 100 105 110
81 His Ser Leu Tyr Thr Ala Ala Gln Tyr Arg Leu Ala Leu Lys Asp Gly
82 115 120 125
83 Tyr Ala Val Ala Asn Thr Asn Thr Ser Asp Val Trp Lys Lys Gly Gly
84 130 135 140
85 Ser Glu Glu Asn Leu Cys Ala Gln Pro Tyr His Glu Ile Tyr Thr Arg
86 145 150 155 160
87 Asp Gly Asn Ser Tyr Gly Arg Pro Cys Glu Phe Pro Phe Leu Ile Gly
88 165 170 175
89 Glu Thr Trp Tyr His Asp Cys Ile His Asp Glu Asp His Ser Gly Pro
90 180 185 190
91 Trp Cys Ala Thr Thr Leu Ser Tyr Glu Tyr Asp Gln Lys Trp Gly Ile
92 195 200 205
93 Cys Leu Leu Pro Glu Ser Gly Cys Glu Gly Asn Trp Glu Lys Asn Glu
94 210 215 220
95 Gln Ile Gly Ser Cys Tyr Gln Phe Asn Asn Gln Glu Ile Leu Ser Trp
96 225 230 235 240
97 Lys Glu Ala Tyr Val Ser Cys Gln Asn Gln Gly Ala Asp Leu Leu Ser
98 245 250 255
99 Ile His Ser Ala Ala Glu Leu Ala Tyr Ile Thr Gly Lys Glu Asp Ile
100 260 265 270
101 Ala Arg Leu Val Trp Leu Gly Leu Asn Gln Leu Tyr Ser Ala Arg Gly
102 275 280 285
103 Trp Glu Trp Ser Asp Phe Arg Pro Leu Lys Phe Leu Asn Trp Asp Pro
104 290 295 300
105 Gly Thr Pro Val Ala Pro Val Ile Gly Gly Ser Ser Cys Ala Arg Met
106 305 310 315 320
107 Asp Thr Glu Ser Gly Leu Trp Gln Ser Val Ser Cys Glu Ser Gln Gln
108 325 330 335
109 Pro Tyr Val Cys Lys Lys Pro Leu Asn Asn Thr Leu Glu Leu Pro Asp
110 340 345 350
111 Val Trp Thr Tyr Thr Asp Thr His Cys His Val Gly Trp Leu Pro Asn
112 355 360 365
113 Asn Gly Phe Cys Tyr Leu Leu Ala Asn Glu Ser Ser Ser Trp Asp Ala
114 370 375 380
115 Ala His Leu Lys Cys Lys Ala Phe Gly Ala Asp Leu Ile Ser Met His

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```

116 385          390          395          400
117 Ser Leu Ala Asp Val Glu Val Val Val Thr Lys Leu His Asn Gly Asp
118          405          410          415
119 Val Lys Lys Glu Ile Trp Thr Gly Leu Lys Asn Thr Asn Ser Pro Ala
120          420          425          430
121 Leu Phe Gln Trp Ser Asp Gly Thr Glu Val Thr Leu Thr Tyr Trp Asn
122          435          440          445
123 Glu Asn Glu Pro Ser Val Pro Phe Asn Lys Thr Pro Asn Cys Val Ser
124          450          455          460
125 Tyr Leu Gly Lys Leu Gly Gln Trp Lys Val Gln Ser Cys Glu Lys Lys
126 465          470          475          480
127 Leu Arg Tyr Val Cys Lys Lys Lys Gly Glu Ile Thr Lys Asp Ala Glu
128          485          490          495
129 Ser Asp Lys Leu Cys Pro Pro Asp Glu Gly Trp Lys Arg His Gly Glu
130          500          505          510
131 Thr Cys Tyr Lys Ile Tyr Glu Lys Glu Ala Pro Phe Gly Thr Asn Cys
132          515          520          525
133 Asn Leu Thr Ile Thr Ser Arg Phe Glu Gln Glu Phe Leu Asn Tyr Met
134          530          535          540
135 Met Lys Asn Tyr Asp Lys Ser Leu Arg Lys Tyr Phe Trp Thr Gly Leu
136 545          550          555          560
137 Arg Asp Pro Asp Ser Arg Gly Glu Tyr Ser Trp Ala Val Ala Gln Gly
138          565          570          575
139 Val Lys Gln Ala Val Thr Phe Ser Asn Trp Asn Phe Leu Glu Pro Ala
140          580          585          590
141 Ser Pro Gly Gly Cys Val Ala Met Ser Thr Gly Lys Thr Leu Gly Lys
142          595          600          605
143 Trp Glu Val Lys Asn Cys Arg Ser Phe Arg Ala Leu Ser Ile Cys Lys
144          610          615          620
145 Lys Val Ser Glu Pro Gln Glu Pro Glu Glu Ala Ala Pro Lys Pro Asp
146 625          630          635          640
147 Asp Pro Cys Pro Glu Gly Trp His Thr Phe Pro Ser Ser Leu Ser Cys
148          645          650          655
149 Tyr Lys Val Phe His Ile Glu Arg Ile Val Arg Lys Arg Asn Trp Glu
150          660          665          670
151 Glu Ala Glu Arg Phe Cys Gln Ala Leu Gly Ala His Leu Pro Ser Phe
152          675          680          685
153 Ser Arg Arg Glu Glu Ile Lys Asp Phe Val His Leu Leu Lys Asp Gln
154          690          695          700
155 Phe Ser Gly Gln Arg Trp Leu Trp Ile Gly Leu Asn Lys Arg Ser Pro
156 705          710          715          720
157 Asp Leu Gln Gly Ser Trp Gln Trp Ser Asp Arg Thr Pro Val Ser Ala
158          725          730          735
159 Val Met Met Glu Pro Glu Phe Gln Gln Asp Phe Asp Ile Arg Asp Cys
160          740          745          750
161 Ala Ala Ile Lys Val Leu Asp Val Pro Trp Arg Arg Val Trp His Leu
162          755          760          765
163 Tyr Glu Asp Lys Asp Tyr Ala Tyr Trp Lys Pro Phe Ala Cys Asp Ala
164          770          775          780

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```

165 Lys Leu Glu Trp Val Cys Gln Ile Pro Lys Gly Ser Thr Pro Gln Met
166 785 790 795 800
167 Pro Asp Trp Tyr Asn Pro Glu Arg Thr Gly Ile His Gly Pro Pro Val
168 805 810 815
169 Ile Ile Glu Gly Ser Glu Tyr Trp Phe Val Ala Asp Pro His Leu Asn
170 820 825 830
171 Tyr Glu Glu Ala Val Leu Tyr Cys Ala Ser Asn His Ser Phe Leu Ala
172 835 840 845
173 Thr Ile Thr Ser Phe Thr Gly Leu Lys Ala Ile Lys Asn Lys Leu Ala
174 850 855 860
175 Asn Ile Ser Gly Glu Glu Gln Lys Trp Trp Val Lys Thr Ser Glu Asn
176 865 870 875 880
177 Pro Ile Asp Arg Tyr Phe Leu Gly Ser Arg Arg Arg Leu Trp His His
178 885 890 895
179 Phe Pro Met Thr Phe Gly Asp Glu Cys Leu His Met Ser Ala Lys Thr
180 900 905 910
181 Trp Leu Val Asp Leu Ser Lys Arg Ala Asp Cys Asn Ala Lys Leu Pro
182 915 920 925
183 Phe Ile Cys Glu Arg Tyr Asn Val Ser Ser Leu Glu Lys Tyr Ser Pro
184 930 935 940
185 Asp Pro Ala Ala Lys Val Gln Cys Thr Glu Lys Trp Ile Pro Phe Gln
186 945 950 955 960
187 Asn Lys Cys Phe Leu Lys Val Asn Ser Gly Pro Val Thr Phe Ser Gln
188 965 970 975
189 Ala Ser Gly Ile Cys His Ser Tyr Gly Gly Thr Leu Pro Ser Val Leu
190 980 985 990
191 Ser Arg Gly Glu Gln Asp Phe Ile Ile Ser Leu Leu Pro Glu Met Glu
192 995 1000 1005
193 Ala Ser Leu Trp Ile Gly Leu Arg Trp Thr Ala Tyr Glu Arg Ile Asn
194 1010 1015 1020
195 Arg Trp Thr Asp Asn Arg Glu Leu Thr Tyr Ser Asn Phe His Pro Leu
196 1025 1030 1035 1040
197 Leu Val Gly Arg Arg Leu Ser Ile Pro Thr Asn Phe Phe Asp Asp Glu
198 1045 1050 1055
199 Ser His Phe His Cys Ala Leu Ile Leu Asn Leu Lys Lys Ser Pro Leu
200 1060 1065 1070
201 Thr Gly Thr Trp Asn Phe Thr Ser Cys Ser Glu Arg His Ser Leu Ser
202 1075 1080 1085
203 Leu Cys Gln Lys Tyr Ser Glu Thr Glu Asp Gly Gln Pro Trp Glu Asn
204 1090 1095 1100
205 Thr Ser Lys Thr Val Lys Tyr Leu Asn Asn Leu Tyr Lys Ile Ile Ser
206 1105 1110 1115 1120
207 Lys Pro Leu Thr Trp His Gly Ala Leu Lys Glu Cys Met Lys Glu Lys
208 1125 1130 1135
209 Met Arg Leu Val Ser Ile Thr Asp Pro Tyr Gln Gln Ala Phe Leu Ala
210 1140 1145 1150
211 Val Gln Ala Thr Leu Arg Asn Ser Ser Phe Trp Ile Gly Leu Ser Ser
212 1155 1160 1165
213 Gln Asp Asp Glu Leu Asn Phe Gly Trp Ser Asp Gly Lys Arg Leu Gln

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```

214      1170      1175      1180
215 Phe Ser Asn Trp Ala Gly Ser Asn Glu Gln Leu Asp Asp Cys Val Ile
216 1185      1190      1195      1200
217 Leu Asp Thr Asp Gly Phe Trp Lys Thr Ala Asp Cys Asp Asp Asn Gln
218      1205      1210      1215
219 Pro Gly Ala Ile Cys Tyr Tyr Pro Gly Asn Glu Thr Glu Glu Glu Val
220      1220      1225      1230
221 Arg Ala Leu Asp Thr Ala Lys Cys Pro Ser Pro Val Gln Ser Thr Pro
222      1235      1240      1245
223 Trp Ile Pro Phe Gln Asn Ser Cys Tyr Asn Phe Met Ile Thr Asn Asn
224      1250      1255      1260
225 Arg His Lys Thr Val Thr Pro Glu Glu Val Gln Ser Thr Cys Glu Lys
226 1265      1270      1275      1280
227 Leu His Pro Lys Ala His Ser Leu Ser Ile Arg Asn Glu Glu Glu Asn
228      1285      1290      1295
229 Thr Phe Val Val Glu Gln Leu Leu Tyr Phe Asn Tyr Ile Ala Ser Trp
230      1300      1305      1310
231 Val Met Leu Gly Ile Thr Tyr Glu Asn Asn Ser Leu Met Trp Phe Asp
232      1315      1320      1325
233 Lys Thr Ala Leu Ser Tyr Thr His Trp Arg Thr Gly Arg Pro Thr Val
234      1330      1335      1340
235 Lys Asn Gly Lys Phe Leu Ala Gly Leu Ser Thr Asp Gly Phe Trp Asp
236 1345      1350      1355      1360
237 Ile Gln Ser Phe Asn Val Ile Glu Glu Thr Leu His Phe Tyr Gln His
238      1365      1370      1375
239 Ser Ile Ser Ala Cys Lys Ile Glu Met Val Asp Tyr Glu Asp Lys His
240      1380      1385      1390
241 Asn Gly Thr Leu Pro Gln Phe Ile Pro Tyr Lys Asp Gly Val Tyr Ser
242      1395      1400      1405
243 Val Ile Gln Lys Lys Val Thr Trp Tyr Glu Ala Leu Asn Ala Cys Ser
244      1410      1415      1420
245 Gln Ser Gly Gly Glu Leu Ala Ser Val His Asn Pro Asn Gly Lys Leu
246 1425      1430      1435      1440
247 Phe Leu Glu Asp Ile Val Asn Arg Asp Gly Phe Pro Leu Trp Val Gly
248      1445      1450      1455
249 Leu Ser Ser His Asp Gly Ser Glu Ser Ser Phe Glu Trp Ser Asp Gly
250      1460      1465      1470
251 Arg Ala Phe Asp Tyr Val Pro Trp Gln Ser Leu Gln Ser Pro Gly Asp
252      1475      1480      1485
253 Cys Val Val Leu Tyr Pro Lys Gly Ile Trp Arg Arg Glu Lys Cys Leu
254      1490      1495      1500
255 Ser Val Lys Asp Gly Ala Ile Cys Tyr Lys Pro Thr Lys Asp Lys Lys
256 1505      1510      1515      1520
257 Leu Ile Phe His Val Lys Ser Ser Lys Cys Pro Val Ala Lys Arg Asp
258      1525      1530      1535
259 Gly Pro Gln Trp Val Gln Tyr Gly Gly His Cys Tyr Ala Ser Asp Gln
260      1540      1545      1550
261 Val Leu His Ser Phe Ser Glu Ala Lys Gln Val Cys Gln Glu Leu Asp
262      1555      1560      1565

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/11/2005
PATENT APPLICATION: US/09/586,704B TIME: 16:13:24

Input Set : A:\600-1-081CON REV SEQ LIST 4-29-05.TXT
Output Set: N:\CRF4\05112005\I586704B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 1,2,4,5,6
Seq#:8; Xaa Pos. 2,4
Seq#:9; Xaa Pos. 1,2,4
Seq#:10; Xaa Pos. 1,3,4
Seq#:11; Xaa Pos. 1,2,4,5
Seq#:12; Xaa Pos. 2,4,5

VERIFICATION SUMMARY

DATE: 05/11/2005

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TIME: 16:13:24

Input Set : A:\600-1-081CON REV SEQ LIST 4-29-05.TXT

Output Set: N:\CRF4\05112005\I586704B.raw

L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0